

## **1.0 INTRODUCTION**

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1. This Ground Water RCRA Facility Investigation Report presents the technical data and results of ground water investigations performed at the Lockheed Martin Corporation former International Light Metals facility in Torrance, California. The report covers the investigations performed from August 1994 through November 1999.
2. The report summarizes the nature and extent of impacts to the ground water as a result of former facility operations which occurred from the early 1940s through the early 1990s.

### **1.2 PURPOSE**

1. The Hazardous and Solid Waste Amendments (HSWA) to the Resource Conservation and Recovery Act (RCRA) were enacted into law on November 8, 1984. One of the major provisions of these amendments (Section 3004[u]) requires Corrective Action for releases of hazardous waste constituents from Solid Waste Management Units (SWMUs) at hazardous waste treatment, storage, or disposal facilities. Under this provision, facilities applying for a RCRA hazardous waste management facility permit will be subject to a RCRA Facility Assessment (RFA). The RFA is conducted by the regulatory agency and is designed to identify SWMUs that are, or are suspected to be, the source of a release to the environment. If such units are identified, the owner or operator of the facility will be directed to perform an RCRA Facility Investigation (RFI) to obtain information on the nature and extent of the release so that the need for Interim Measures (IM) or a Corrective Measures Study (CMS) can be determined.
2. The RFA and RFI process was initiated by Martin Marietta Corporation as part of its intent to cease operations and close its permitted SWMUs at its International Light Metals Division (ILM) facility at 19200 South Western Avenue in Torrance, California. The location of the site is shown in Figure 1.1. The facility was subsequently shutdown in 1992. As a result of the merger in March 1995 between Martin Marietta Corporation and Lockheed Corporation, the merged corporation (i.e., Lockheed Martin Corporation [LMC]) assumed responsibility for the site.
3. The RCRA regulations are implemented by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) and require the implementation of Corrective Actions, as necessary, to protect human health and the environment from all releases of solid or

hazardous waste(s) or hazardous waste constituent(s) from any SWMU and/or area of concern (AOC) at the facility. The need for corrective actions is determined by a corrective measures study based on the results of the RFI. The RFI also establishes the basis for assessing human health impacts. The DTSC is overseeing the corrective action as part of the closure activities of the RCRA permitted operations at the former ILM facilities in accordance with the regulations in Title 22, California Code of Regulations (CCR), Division 4.5.

4. A Soil RFI (SRFI) was conducted after closure of the facility in accordance with the guidelines outlined in the United States Environmental Protection Agency (USEPA) report, *Interim Final RCRA Facility Investigation Guidance* dated May 1989 (USEPA, 1989a). As a result of the SRFI findings, impacted soils were removed and/or remediated at the site. A "No Further Action" for Soil Remedy Approval was granted by the DTSC in 1997.
5. An additional Corrective Action Consent Agreement was executed in 1998 and requires the performance of a RFI for the ground water below the facility. The purpose of the Ground Water RFI (GWRFI) is to determine the nature and extent of any releases of hazardous waste and/or hazardous constituents to the ground water at the former ILM facility.
6. TRC was contracted by LMC in June 1999, to complete the GWRFI and ground water RCRA Corrective Action Program which were initiated by others. This report presents the results and conclusions of the work performed to complete the GWRFI. TRC has also contracted with LMC to assume environmental compliance liability for the site which includes performing the remaining activities under the ground water consent agreement (e.g., corrective measures study, corrective measures, etc.).

### **1.3 ORGANIZATION OF REPORT**

1. Chapter 2.0 of this report provides a description and history of the facility. Chapter 3.0 outlines the environmental setting of the site and includes the location, land use, ecologic, topographic, surface drainage, climatic, hydrologic, geologic and hydrogeologic data as well as information on surrounding area contamination. Chapter 4.0 summarizes prior ground water investigations and the July 1999 sampling event. Chapter 5.0 provides an evaluation of the ground water investigation results with Chapter 6.0 summarizing the Ground Water RFI findings.